•	Approved For Release	e 2004 /67/07 文明》 155 75B0028 5D 000200050014-0	25
			25
		Copy 9 of 12 18 July 1973	2
	MEMORANDUM FOR:	Director, CIA Reconnaissance Programs	
	SUBJECT:	Program Progress Report	
	Forwarded here	ewith are three copies of the IDEALIST	
	Program Progress Rep	ort for the period 1 April 1973 - 30 June 1973.	
			2
	•		
	. , ,	Brigadier General, USAF	
	••	Director of Special Activities	
5X1	Attachments - As stated		
		•	
	NRO review(s) completed		
			72
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C/SAS/O/OSA (10 July 1973)

- Distribution: 1 - D/CRP
 - 2 D/CRP
 - 3 D/CRP
 - 4 DDS&T Reg
 - 5 D/SA
 - 6 SAS/O/OSA
 - 7 D/O/OSA
 - 8 IDEA/O/OSA
 - 9 INTEL/O/OSA
- 10 D/M/OSA
- 11 AMS/OSA
- 12 RB/OSA

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IDEALIST	
OPERATIONAL SUMMARY AND STATUS	
(1 April 1973 - 30 June 1973)	
OPERATIONAL MISSION SUMMARY	

I. OPERATIONAL MISSION SUMMARY	
IDEALIST TACKLE operational missions were alerted	
during this period. were flown, one was cancelled by Project	
Headquarters for weather,	1
All missions were planned to be flown no closer than	J
25 nautical miles to the China mainland coast. The following is a	
summary of the missions flown:	
* ***	
2 Mission C143C was flown on 13 April 1973 along the	
2. Mission C143C was flown on 13 April 1973 along the	
north central China coast. This mission was designed to	
north central China coast. This mission was designed to collect information using the "H" configuration.	
north central China coast. This mission was designed to collect information using the "H" configuration.	
north central China coast. This mission was designed to collect information using the "H" configuration. The northern portion of the route was not flown due to unsuitable	
north central China coast. This mission was designed to collect information using the "H" configuration. The northern portion of the route was not flown due to unsuitable weather. The pilot reported 20 percent coverage of the planned	
north central China coast. This mission was designed to collect information using the "H" configuration. The northern portion of the route was not flown due to unsuitable	

Mission C153C was planned along the central China coast from Quemoy north to Shanghai. This mission was flown on 25 April 1973 utilizing the "H" configuration. Due to weather, the northern portion of the mission was not flown; however, the pilot diverted to the east and flew the southern portion of the

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	Section 1 Page 2	25X1 25X1
25X1	mission. Seven of 120 programmed targets and two bonus non-COMIREX targets were photographed.	25X1
25X1 25X1	4. Mission Cl63C was flown on 26 April 1973 around the Paracel Islands and along the coast of Hainan Island to collect information using the "H" configuration. Eleven of 36 programmed	25X1
	5. Mission C183C, an "H" configured mission, was flown on 10 May 1973 along the north central China coast. Only 30 percent coverage of the planned flight lines was obtained due to unsuitable weather along three portions of the route. Several (more than 10) fast moving ships heading east were sighted abeam Shanghai. Thirty-eight of 135 programmed targets were covered. Three bonus COMIREX and five non-COMIREX targets were photographed.	25X1
	6. Mission Cl93C was flown on 22/23 May 1973 in the vicinity of the Paracel Islands and Hainan Island, utilizing the "H" configuration. Detailed analysis of the mission revealed that 80 percent of the route was covered by clouds. Four of the 36 targets programmed were covered. Three bonus targets were covered; two COMIREX and one non-COMIREX.	
		25X1

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25X ²	II. GENERAL	
25X ²		
		25X1
25X ²	D. B-3 Camera Test - Seven sorties were flown with the modified "B" configuration.	
25X ²	E. "H" Lens Test - Eleven sorties were flown to test the new color corrected lens.	
25X ²	F. Four sorties were flown to provide photography in support of this test program.	
25X ²	G. COMPASS TRIP - Four sorties were flown over the Central Ferry Station poppy plantings. The Delta and multi-spectral configurations are being used for this phase.	
25X ²	H Three sorties were flown to photograph the areas flooded by the Mississippi River.	25X1
257		05)/4
25X ²	pilots, completed training and became operationally ready on 8 June 1973.	25X1
25X ²	Each pilot flew 13 missions during this quarter to complete the flight phase of training. and a third candidate completed T-37 training. Two of the candidates are now in T-37 training with the third candidate in T-37 continuation	
25X ²	training. will be selected for U-2R	
25X ²	Approved For Release 2004/97/97 CIA REP. 75B00285R0002000 GROUP 1 EXCLUDED FROM AND DECLASSIFICATION	25X1

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					Sect Page	ion I e 4	25X1
25X1	III.		PILOT AND AIR	CRAFT STATUS	(AS OF 30 J	UNE 1973)	
		Α.	Detachment "G"	(Edwards AFB - N	North Base)		
			Aircraft	2 U-2R			
			Pilots				25X1
		в.	Detachment "H"				
			Aircraft				
			Pilots				
	• • •						25X1
							·

Section 2

IDEALIST

DEVELOPMENT SUMMARY AND PROGRESS

(1 April 1973 - 30 June 1973)

25X1

AIRFRAME L.

- Inspect and Repair as Necessary (IRAN) A decision to extend the IRAN cycle from 2500 hours to 3400 hours was made on 3 May 1973. This decision was made in view of the favorable condition found on U.S. Air Force airframes previously submitted for IRAN.
- J-75P13B Engine The installation of improved third stage turbine blades to increase engine life expectancy has continued during this quarter as engines come due for overhaul. Two additional sets of improved first stage turbine blades have been procured and a three engine test program will commence during the first quarter of FY 1974. These improvements should permit extension of Hot Section Inspection (HSI) an additional 100 hours, and of Time Between Overhaul (TBO) an additional 200 hours.

C. U-2R Flight Test and Operational Training Summary

- IDEALIST Program accomplishments in U-2R aircraft since introduction include 11,270.6 hours on 3476 sorties as of 30 June 1973.
 - 2. Flight test and operational data are depicted below:

	1 APR-30 JUN FLIGHTS	1 APR-30 JUN TIME
1 - 051	42	110.5
2 - 053	44	102.4
3 - 054	53	204.3
4 - 055	<u>47</u>	171.7
TOTAL	186	588.9

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II.

Camera - The second f/3.5 apochromatic lens 25X1 installation and variable slit modification to the scan heads of the camera have been programmed to start during August 1973. The unit 25X1 is scheduled to be in the modification process until January 1974.

Serial Number 230 has completed all functional ground

testing and altitude chamber testing and is scheduled to enter flight

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program on 20 June 1973.

testing early in July 1973.

2.

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	25X1
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Page 3	
E. Q-E Bay Simulator - The Wright-Patterson Air Force Base	
simulator of Q-E Bay vibration, pressure, and temperature effects has been completed and will be operationally tested with an IRIS	
configuration during September 1973. Drawings necessary to construct	0 =) (4
hatches so that IDEALIST configurations can be tested in this simulator	25X1
have been made available to the Wright-Patterson Project Office.	

Approved For Release 2004/07/07 SECRET 75B00285B000200050014-0 25X1 25X1 Section 2 Page 4 LORAN Navigation System - OSA arranged to borrow a LORAN for use in a 90 to 120 day test program navigation system designed to determine the applicability of this system in U-2R operations. Feasibility testing is planned to be completed by September 1973. 25X1 Det "G" Man Hours Sorties Flying Hours TAC Maint Avionics 1 - 0564 12.6 480 200 2 - 0586 22.7 608 300 25X1 TOTAL 10 35.3 1088 500

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	Section 2 Page 5	25X1
25X1	v. AERO MEDICAL AND LIFE SUPPORT ACTIVITIES	
25X1	A. Medical Activities	
25X1	1. AMS/OSA Medical Consultant - recently chosen as consultant for AMS/OSA, visited Washington, D. C., for a briefing during mid-June.	25X1
		25X ²
25X1 25X1	3. Medical Technicians - One of the OMS medical technicians resigned. By agreement, the Air Force is entitled to fill the slot with an Air Force medic. It is reported that the Air Force personnel interrogated 6,000 IBM cards	
;	to get two candidates, one of whom visited the site and declined the job. An excellent OMS candidate will accept the contract position if the Air Force is unable to fulfill this requirement.	25X1
25X1		

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B. Life Support Activities

- 1. Shark Deterrent Screen Contact has been made with Dr. C. Scott Johnson of the U.S. Navy, the inventor and principal investigator of a new shark deterrent device or as it is more commonly called, a shark bag. Dr. Johnson is forwarding one of the bags along with the early test results to Headquarters Life Support for evaluation. The major problem to date appears to be in miniturization packaging of this bag. In addition to its primary use in shark protection, the bag can also be used in overland survival as a sleeping bag, a water-collection device or for signaling.
- 2. Glove Bladder Improvement The full pressure suit manufacturer, David Clark Company, is still investigating an improved bladder cloth for gloves. A weak area is evident in the stitching in the crotch of the fingers. Presently, in order to resolve this problem, a seamless glove has been fabricated using urethane as a part of the compound. Field evaluation should take place during the fall.
- 3. Helmet Bearing Seal Improvement Six sets of redesigned seals are being field tested at Detachment "G". Initial results seem to indicate a considerable improvement, however, one seal did cause excessive abrasion to the mating teflon surface. The cause of this specific problem has yet to be identified.
- 4. S1010 Pilot Protective Assembly (PPA) Pressure Suit
 Fit Problem It has become readily apparent in the past six months
 that the lower calf circumference must be increased for all subjects.
 Across the board enlargement in this area will be accomplished as
 pressure suits are returned to the factory for maintenance or
 rework.
- 5. Parachute Harness Retaining Strap The RQ-225 parachute retainer strap that insures the proper position of the main riser has been causing some interference with the suit controller and vent hardware. The retainer is to be lengthened one inch and test jumps will be accomplished in August 1973.

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6. Glove Disconnect - A full pressure suit glove disconnect has been redesigned to reduce weight and bulk, improve easy entry, and improve ventilation. Prototype hardware will be available in July 1973.	
C. Training	
1. Life Support Conference - The semiannual Life Support Conference was held in Las Vegas, Nevada, on 6 May 1973 in conjunction with the Aerospace Medical Association annual meeting.	
the Detachment "G" Flight Surgeon, represented OSA at this meeting.	

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